

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A system for preservation of a data record, the system comprising:
 - (a) an input handler for accepting a preservation request to preserve said data record, for accepting input metadata associated with said data record to form a metadata record, and for conversion of said data record and said metadata record to generate a formatted data record;
 - (b) a data processor for accepting said formatted data record, for generating at least one preview image from said formatted data record, and for encoding, from said formatted data record, a print file;
 - (c) a preservation medium for recording said print file;
 - (d) a writer for marking said print file onto said preservation medium to form a human-readable preserved data record;
 - (e) a display for representing said at least one preview image;
 - (f) a storage apparatus for safekeeping of said human-readable preserved data record; and
 - (g) a data recovery apparatus for obtaining, from said human-readable preserved data record, said data record and said input metadata record.
2. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is conditioned by a look-up table.
3. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is conditioned by a spatial filter.
4. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is bitonal.

5. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is grayscale.

6. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is an RGB color image.

7. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is an CMY color image.

8. (original) A system for preservation of a data record as in claim 1 wherein said at least one preview image is a palletized color image.

9. (original) A system for preservation of a data record as in claim 1 wherein said preservation medium is photosensitive.

10. (original) A system for preservation of a data record as in claim 1 wherein said preservation medium comprises a metal plate.

11. (original) A system for preservation of a data record as in claim 1 wherein said preservation medium comprises a thermal medium.

12. (original) A system for preservation of a data record as in claim 1 wherein said preservation medium is an electrophotographic medium.

13. (original) A system for preservation of a data record as in claim 1 wherein said preservation medium is monochromatic.

14. (original) A system for preservation of a data record as in claim 1 wherein said preservation medium is polychromatic.

15. (original) A system for preservation of a data record as in claim 1 wherein said writer comprises a laser.

16. (cancelled)
17. (original) A system for preservation of a data record as in claim 1 wherein said writer images using a radiant energy source.
18. (original) A system for preservation of a data record as in claim 1 wherein said display comprises a CRT.
19. (original) A system for preservation of a data record as in claim 1 wherein said display comprises a touchscreen.
20. (original) A system for preservation of a data record as in claim 1 further comprising an operator console for entering instructions.
21. (original) A system for preservation of a data record as in claim 1 wherein said data recovery apparatus comprises a scanner.
22. (original) A system for preservation of a data record as in claim 1 wherein said preservation request originates from a browser executable.
23. (original) A system for preservation of a data record as in claim 1 wherein said data processor is connected on a network.
24. (original) A preservation apparatus for maintaining at least one preserved data record on a preservation medium, where said at least one preserved data record has a predetermined data format, the apparatus comprising:
- (a) a data processor for accepting a data record that comprises input metadata, for providing at least one preview image comprising said data record, and for generating a print file from said data record in response to a print instruction;
 - (b) a writer for marking said print file onto said preservation medium to form said preserved data record;
 - (c) a display for providing said at least one preview image and for receiving said print instruction; and

(d) a storage apparatus for safekeeping of said preserved data record.

25. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is conditioned by a look-up table.

26. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is conditioned by a spatial filter.

27. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is bitonal.

28. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is grayscale.

29. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is an RGB color image.

30. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is a CMY color image.

31. (original) A preservation apparatus as in claim 24 wherein said at least one preview image is a palletized color image.

32. (original) A preservation apparatus as in claim 24 wherein said preservation medium is photosensitive.

33. (original) A preservation apparatus as in claim 24 wherein said preservation medium comprises a metal plate.

34. (original) A preservation apparatus as in claim 24 wherein said preservation medium comprises a thermal medium.

35. (original) A preservation apparatus as in claim 24 wherein said preservation medium is an electrophotographic medium.

36. (original) A preservation apparatus as in claim 24 wherein said preservation medium is monochromatic.

37. (original) A preservation apparatus as in claim 24 wherein said preservation medium is polychromatic.

38. (original) A preservation apparatus as in claim 24 wherein said writer comprises a laser.

39. (original) A preservation apparatus as in claim 24 wherein said writer images using an electron beam.

40. (original) A preservation apparatus as in claim 24 wherein said writer images using a radiant energy source.

41. (original) A preservation apparatus as in claim 24 wherein said display comprises a CRT.

42. (original) A preservation apparatus as in claim 24 wherein said display comprises a touchscreen.

43. (original) A method for preservation of an original data record, the method comprising:

(a) encoding said original data record in a format to form an encoded data record;

(b) encoding a metadata record corresponding to said encoded data record;

(c) processing said encoded data record to provide at least one preview image;

(d) displaying said at least one preview image and accepting a print instruction; and

(e) in response to said print instruction, recording said encoded data record and said metadata record on a preservation medium, as a human-readable preserved data record.

44. (original) A method for preservation of a data record according to claim 43 wherein the step of processing said encoded data record comprises the step of simulating a writing operation.

45. (original) A method for preservation of a data record according to claim 43 further comprising the steps of:

- (a) scanning said encoded data record from said preservation medium;
- (b) processing said encoded data record to provide at least one retrieval preview image;
- (c) displaying said at least one retrieval preview image and accepting a retrieval instruction; and
- (d) in response to said retrieval instruction, processing said encoded data record to provide said original data record.

46. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record and said metadata record on said preservation medium comprises the step of recording on a photosensitive medium.

47. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record and said metadata record on said preservation medium comprises the step of recording on a thermal medium.

48. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record and said metadata record on said preservation medium comprises the step of recording on an inkjet medium.

49. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record comprises the step of using a light source to write the data onto said preservation medium.

50. (original) A method for preservation of a data record according to claim 49 wherein said light source comprises a laser.

51. (original) A method for preservation of a data record according to claim 49 wherein said light source comprises an LED.

52. (original) A method for preservation of a data record according to claim 49 wherein said light source comprises an OLED.

53. (original) A method for preservation of a data record according to claim 49 wherein said light source comprises a lamp.

54. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record comprises the step of applying an ink to write the data onto said preservation medium.

55. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record comprises the step of using a thermal printhead to write the data onto said preservation medium.

56. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record on said preservation medium comprises the step of recording said encoded data record and said metadata record on a photosensitive medium.

57. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record on

said preservation medium comprises the step of recording said encoded data record and said metadata record on a metallic medium.

58. (original) A method for preservation of a data record according to claim 43 wherein the step of recording said encoded data record on said preservation medium comprises the step of recording said encoded data record and said metadata record on a thermal medium.

59. (cancelled)

60. (original) A method for preservation of a data record according to claim 43 wherein the step of accepting a print instruction comprises the step of accepting a touchscreen command.

61. (original) A method for preservation of a data record according to claim 43 wherein the step of displaying said at least one preview image comprises the step of using a browser.

62. (original) A method of demonstrating a system for storing an image comprising the steps of:

(a) simulating the image quality of said image under a plurality of image processing conditions and displaying a plurality of simulated images on a display; and

(b) accepting a command for processing said image according to one of said plurality of simulated images.

63. (new) A system for preservation of a data record comprising:

(a) converting said data record to a rasterized image;

(b) preprocessing said rasterized image to generate a preprocessed image;

(c) simulating a retrieved data record to generate a simulated retrieved data record comprising:

simulating a media writer;

simulating a media;
simulating a retrieval scanner;
(d) postprocessing said simulated retrieved data record to
generate a postprocessed simulated retrieved data record;
(e) displaying said postprocessed simulated retrieved data
record;
(f) prompting a user for approval of said postprocessed
simulated retrieved data record;
(g) if said postprocessed simulated retrieved data record is
approved by said user, go to step h; if said postprocessed simulated data record is
not approved by said user, cancel preservation operation; and
(h) writing said preprocessed image to said media.

64. (new) A system as in claim 63 comprising:

- (i) storing said media; and
- (j) recovering said preprocessed image.

65. (new) A system as in claim 63 wherein said rasterized
image is in human readable format.

66. (new) A system as in claim 63 wherein said media is an
analog media.